

QT-Brightek Chip LED Series

SMD 0402 Green LED

Part No.: QBLP595-AG1-2897

**AG1: 566 to 575nm
2897: High Bright Version**



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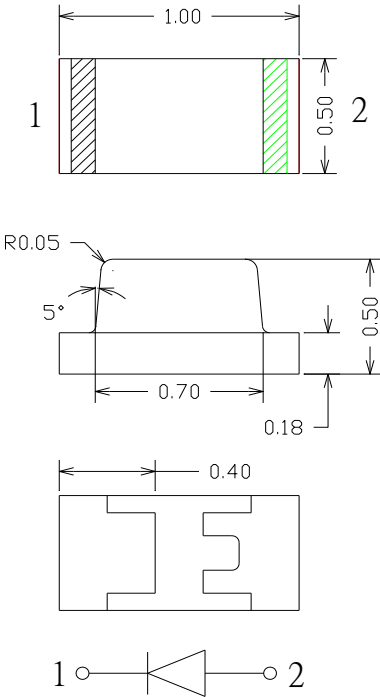
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Introduction

Feature: • Water clear lens • Color: Green • Package in tape and reel • Compact 0402 package • AlInGaP technology • Viewing angle: 140° typ. • Height profile: 0.5mm	Application: • Status indication • Back lighting application Certification & Compliance: • ISO9001 • RoHS Compliant 
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Dimension:  Units: mm / tolerance = +/-0.1mm
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Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V)		λ _D (nm)			λ _p (nm)	I _V (mcd)	
			Typ.	Max.	Min.	Typ.	Max.	Typ.	Min.	Typ.
QBLP595-AG1-2897	Green	20	2.0	2.5	566	570	575	574	30	50

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
AlInGaP	75	30	100	5	-40 ~ +80	-40 ~ +85	260

*Duty 1/10 @ 1KHz

**IR Reflow for no more than 10 sec @ 260 °C

Forward Voltage V_F @ I_F=20mA

Bin	Min.	Max.	Unit
□	1.7	2.5	V

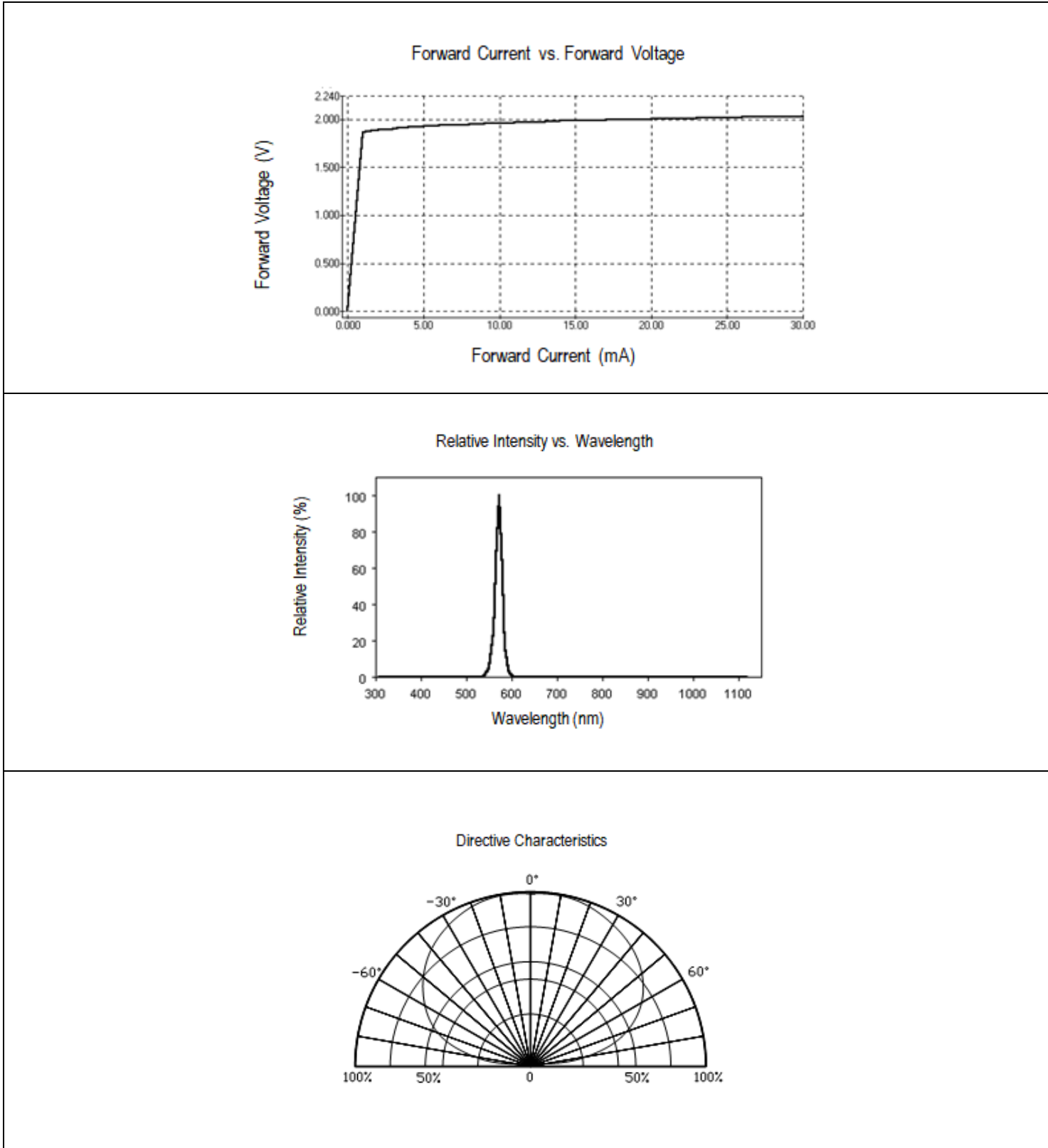
Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
2D	30	38	mcd
2E	38	48	
2F	48	60	
2G	60	75	
2H	75	94	
2I	94	117	

Dominant Wavelength λ_D @ I_F=20mA

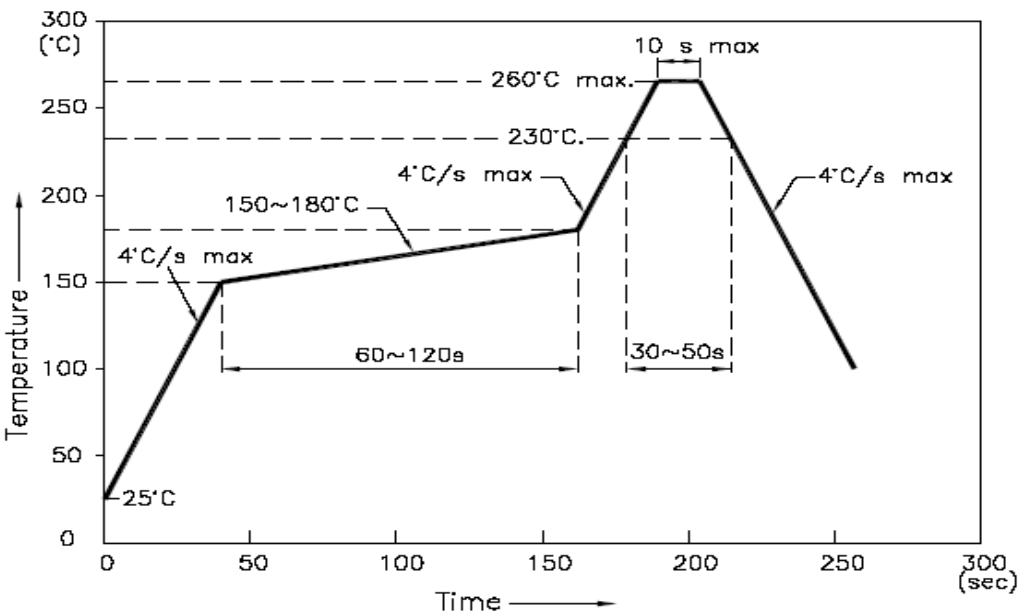
Bin	Min.	Max.	Unit
H	566	569	nm
I	569	572	
J	572	575	

Characteristic Curves

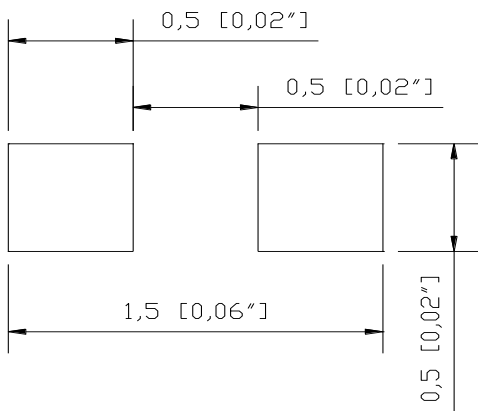


Solder Profile & Footprint

-The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):



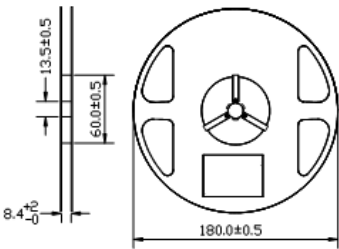
Recommended Pad Layout



Units: mm

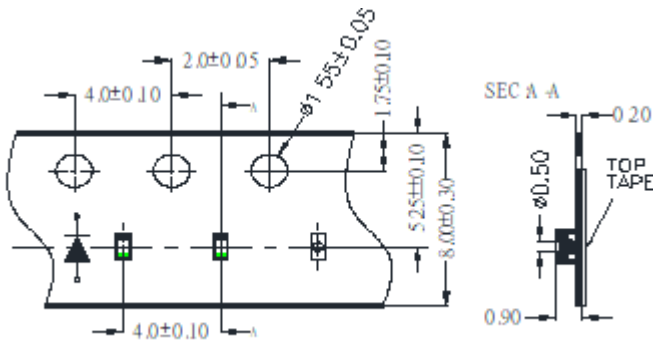
Packing

Reel Dimension:



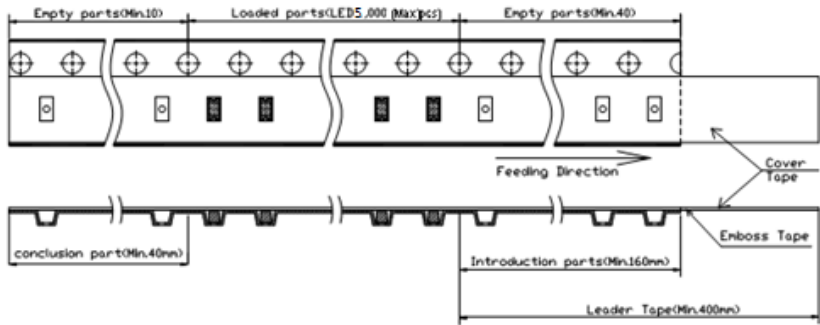
Unit: mm

Tape Dimension:

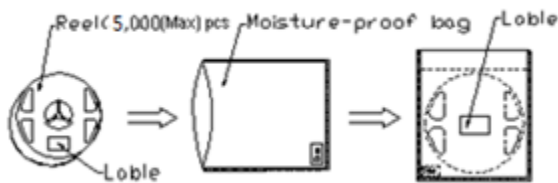


Unit: mm

Arrangement of Tape:



Packaging Specifications:





Part No:

Customer P/N:

Item:

Q'ty:

Vf:

iv:

WI:

Date:

Made in China

Ordering Information

Orderable Part #	Spec Range	Quantity per reel
QBLP595-AG1-2897	lv=50mcd typ. @ I _F =20mA / Color=566 to 575nm	5,000 units



Revision History

Description:	Revision #	Revision Date
New Release of QBLP595-AG1-2897	V1.0	10/10/2024

Disclaimer

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.